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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,921	01/04/2006	CaoMinh Ta	Q88569	9524
23373 77590 97/13/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			COLON SANTANA, EDUARDO	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2837	
			MAIL DATE	DELIVERY MODE
			07/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/538,921	TA ET AL.				
Examiner	Art Unit				
Eduardo Colon-Santana	2837				

Eduardo Colon-Santana	2837					
The MAILING DATE of this communication appears on the cover sheet with	the correspondence ad	dress				
Period for Reply						
A SHORTENED STATUTIORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.38(g), in no event, however, may a reply be timely filed after SK (6) MCNT1/S from the making date of the communication. If the sk (6) MCNT1/S from the making date of the communication. Failure to reply whith the set or standed period for reply will by the skilled, cause the napplication to become ABANDONED (38 LXC, § 133). Any reply received by the Office later than three months after the making date of this communication, even if timely filed, may reduce any earned painter them dailures. See 37 CFR 1.70(b).						
Status						
 Responsive to communication(s) filed on <u>13 June 2005</u>. 						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) 1-25 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-25 are subject to restriction and/or election requirement.						
0)03 Chaint(3) 1-20 are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached O	ffice Action or form PT	O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 17	19(a)-(d) or (f).					
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Appl	lication No					
3. Copies of the certified copies of the priority documents have been re-		Stage				
application from the International Bureau (PCT Rule 17.2(a)).		- 0				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Sum	mary (PTO-413)					

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SE/08)

Paper No(s)/Mail Date _____.

Paper No(s)/Mail Date.____.
5) Notice of Informal Patent Application

6) Other: Detailed Action.

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DETAILED ACTION

Election/Restrictions

- Restriction is required under 35 U.S.C. 121 and 372.
- This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under FCT Rule 13.1.
- In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.
- **Group I**, claim(s) 1-6 and 12-21, drawn to motor drive control apparatus, classified in class 318, subclass 802.
- **Group II**, claim(s) 7-11 and 22-25, drawn to a motor control apparatus for controlling a motor, classified in class 318, subclass 400.02.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Invention I and II are directed to related products. The related inventions are distinct if the inventions as claimed are mutually exclusive, not obvious and have materially different mode of operation. In the instant case,

Invention I is directed to a motor drive control apparatus whose object is to switch between a vector control and a

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rectangular wave control in accordance to the rotation speed calculated by a position estimating circuit.

Invention II is directed to a control apparatus for controlling a motor whose object is to obtain a d-axis current command value from a torque command value, an angular speed and a mechanical angular speed.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of an invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eduardo Colon-Santana whose telephone number is (571)272-2060. The examiner can normally be reached on Monday thru Friday 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Benson can be reached on (571) 272-2800 X.37. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval. For more information, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197. If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 or 571-272-1000.

/E.C.S/ Patent Examiner Art Unit 2837

July 6, 2009 /Walter Benson/ Supervisory Patent Examiner, Art Unit 2837